IN THE CLAIMS

Please amend the claims as follows:

Claims 1-26 (Cancelled)

27. (Currently Amended) A nanoscale particle array, comprising:

a substrate having a plurality of nanopores in a surface thereof; and

one or more metals or non-metals deposited in said plurality of nanopores to a depth of at least 5 nm and with coercivity of at least 500 Oe;

and having an in-plane squareness of from 0 to 0.6 and a perpendicular coercivity of up to 2 kOe.

wherein the array has a distribution of nanoparticles made of said one or more metals or non-metals deposited in said nanopores, wherein the nanoparticles have an average length, L, and a standard deviation, σ , such that σ/L is no more than 5%.

- 28. (Original) The nanoscale particle array of claim 27, wherein said one or more metals are selected from the group consisting of magnetic metals, non-magnetic metals, semiconductors and metal oxides.
- 29. (Original) The nanoscale particle array of claim 28, wherein said one or more metals are selected from the group consisting of magnetic metals and alloys thereof.
- 30. (Original) The nanoscale particle array of claim 29, wherein said magnetic metals are selected from the group consisting of Fe, Co, Ni and alloys thereof.
- 31. (Original) The nanoscale particle array of claim 27, wherein said substrate is aluminum.

- 32. (Original) The nanoscale particle array of claim 27, wherein said plurality of nanopores are present in said substrate at a density of from 10^6 to 10^{12} cm⁻².
- 33. (Currently Amended) A magnetic information storage medium, comprising: a substrate having a plurality of nanopores in a surface thereof; and one or more metals deposited in said plurality of nanopores to a depth of at least 5 nm and with coercivity of at least 500 Oe, wherein the magnetic information storage medium has a recording density of at least 40 Gb/in², an in-plane squareness of from 0 to 0.6 and a perpendicular coercivity of up to 2 kOe, wherein the plurality of nanopores has a distribution of nanoparticles made of said one or more metals or non-metals deposited in said nanopores, wherein the nanoparticles have an average length, L, and a standard deviation, σ, such that σ/L is no more than 5%.
- 34. (Original) The magnetic information storage medium of claim 33, wherein said one or more metals are selected from the group consisting of magnetic metals, metal oxides and magnetic metal alloys.
- 35. (Original) The magnetic information storage medium of claim 34, wherein said one or more metals are selected from the group consisting of magnetic metals and alloys thereof.
- 36. (Original) The magnetic information storage medium of claim 35, wherein said magnetic metals are selected from the group consisting of Fe, Co, Ni and alloys thereof.
- 37. (Original) The magnetic information storage medium of claim 33, wherein said substrate is aluminum.

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- 38. (Original) The magnetic information storage medium of claim 33, wherein said plurality of nanopores are present in said substrate at a density of from 10^6 to 10^{12} cm⁻².
- 39. (Currently Amended) A magnetic information storage medium, comprising: a substrate; and

means for providing a recording density of at least 40 Gb/in² on a surface of said substrate, wherein said magnetic information storage medium has an in-plane squareness of from 0 to 0.6 and a perpendicular coercivity of up to 2 kOe,

wherein the medium has a distribution of nanoparticles made of one or more metals or non-metals deposited in a plurality of nanopores in said substrate, wherein the nanoparticles have an average length, L, and a standard deviation, σ , such that σ/L is no more than 5%.